

PTO/SB/08A (10-88)

Substitute for form 1448A/PTO

(use as many sheets as necessary)

Sheet

1

of

6

Complete if Known

Application Number	10/802,505
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Filing Date	March 16, 2004
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First Named Inventor	SAFWAY, Sherif
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Group Art Unit	3643
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Examiner Name	Darren W. Ark
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Attorney Docket Number 2195CON2

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
DA		1,026,544		YAMAMOTO	05/14/12	
		1,552,269		BROCKER	09/01/25	
		1,689,119		EVANS	10/23/28	
		1,695,595		LARNED	12/18/28	
		1,897,224		ANDREWS	02/14/33	
		2,162,115		PAULS	06/13/39	
		2,511,057		GUTHRIE, et.al.	06/13/50	
		2,590,586		THOMPSON, Jr., et.al.	03/25/52	
		2,792,617		HALLER	05/21/57	
		2,816,386		HARRIS, et.al.	12/17/57	
		2,823,576		NEEDHAM, et.al.	02/18/58	
		2,999,413		MOMOI	09/12/61	
		3,041,915		RYFFEL	07/03/62	
		3,102,357		LUKETA	09/03/63	
		3,129,632		STARR	04/21/64	
		3,131,501		LUKETA	05/05/64	
		3,153,297		GRABOWSKY	10/20/64	
		3,308,567		LUKETA	03/14/67	
		3,369,317		BROWNELL	02/20/68	
V		3,606,815		YAMASHITA, et.al.	09/21/71	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
DA		DE	3543253	A1	Perevoschikov, et al.	06/1987		
		FR	2521065		Cassert, et al.	08/1983		
		JP	57-13660			03/1982		
		JP	59-71630			04/1984		
		JP	60-30630			02/1985		
		JP	60-39782		Horie	03/1982		
		JP	60-88160			05/1985		
		JP	60-139860			07/1985		
		JP	61-386		Horie	08/1986		

**Examiner
Signature**

James W. Galt

Date Considered

9/4/02

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
Application Number	10/802,505				
Filing Date	March 16, 2004				
First Named Inventor	SAFWAT, S.				
Group Art Unit	3643				
Examiner Name	Darren W. Ark				
Attorney Docket Number	2195CON2				
Sheet	2	of	6		

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
DA		4,356,654		TREKEL, et. al.	11/02/82	
		4,378,725		HOSPERS, et al.	04/05/83	
		4,457,959		DORNHEIM, et al.	07/03/84	
		4,466,331		MATHESON	08/21/84	
		4,521,986		KOGA	06/11/85	
		4,619,108		HOTTA	10/28/86	
		4,947,727		MOMOI	08/14/90	
		5,339,657		McMURRAY	08/23/94	
		5,453,190		MARTIN, SR.	09/26/95	
		5,622,094		REXROAD	04/22/97	
		5,694,755		FRØYSTAD	12/09/97	
		5,752,459		REXROAD	05/19/98	
		5,860,350		REXROAD	01/19/99	
		6,374,531	B1	SAFWAT, et al.	04/23/02	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
DA V		RU	524876		Aljoshin, et al.	11/1976		
		RU	1444981			12/1986		
		RU	1480792	A1	Perevoschikov, et al.	05/1989		
		WO	91/01633		Theret, et al.	02/1991		
		WO	95/06405		Carlsen, et al.	03/1995		
		WO	97/13407		Safwat, et al.	04/1997		

Examiner Signature Darren W. Ark	Date Considered 9/4/04
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²Unique citation designation number. ³See attached Kinds of U.S. Patent Documents. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁵For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁷Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO		Complete if Known			
		Application Number	10/802,505		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	March 16, 2004		
		First Named Inventor	SAFWAT, Sherif		
		Group Art Unit	3643		
		Examiner Name	Darren W. Ark		
Sheet	3	of	6	Attorney Docket Number	2195CON2

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ²	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ³
DA		Batill, S. M., et al., "An Experimental Investigation of the Flow Field Around Yawed Stranded Cables," Contract No. N00014-83K-0239,	
		Rept. No. CR 2210-89-1, University of Notre Dame, Notre Dame, Indiana (1989)	
DA		Batill, S. M., et al., "Flow Field Studies on Yawed, Stranded Cables," in Flow Visualization, Reznicek V. R. ed., Hemisphere Publishing Corp.,	
		pp.391-396 (1990)	
DA		Batill, S. M., et al., "Detailed Near Surface Flow ABOUT Yawed, Stranded Cables", Contract No. N00014-83K-0239, Rep. No. CSS CR 1210-92-1,	
		University of Notre Dame, Notre Dame, Indiana (1992)	
		Breidenthal, R., Phus. Fluids, Vol. 23, No. 10, p. 1931 (1980)	
DA		Cermak, J.E., "Aerodynamics of Buildings," Annual review of Mechanics 8 p. 99 (1976)	
		Diggs, J. S., "Hydrodynamic Characterization of Various Towed Array Towcables," Tech. Rpt. No. 128, Contract No. N00600-73-D-1077,	
		Mar, Incorporated (1974)	
DA		Endeco, Inc., "Haired Faired Cable," Endeco Towed Systems (date unknown)	

Examiner Signature	Darren W. Ark	Date Considered	9/4/04
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			Application Number	10/802,505	
			Filing Date	March 16, 2004	
			First Named Inventor	SAFWAY, Sherif	
			Group Art Unit	3643	
			Examiner Name	Darren W. Ark	
Sheet	4	of	6	Attorney Docket Number	2195CON2

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
DA		Flugwiss, Z., Weltraumforsch 14, p. 40 (date unknown)	
DA		Garner, J. "How to Make and Set Nets or The Technology of Netting," Fishing News Books Ltd., 1962	
DA		Hoerner, S. F., "Fluid-Dynamic Drag," published by author, pp. 3-2 and 4-4 (1965).	
DA		Hoerner, S. F., "III-Pressure Drag," published by author, pp. 3-7, 3-9, 3-11 and 3-27 (1965).	
DA		Hoerner, S. F., "IV-Structures," published by author, p.4-5 (1965).	
DA		Hunt, J. C. R., "Industrial and Environmental Fluid Mechanics," Annual Review of Fluid Mechanics 23, pp. 10-12 (1991).	
DA		Klust, G., "Netting Materials for Fishing Gear", Fishing News Books Ltd., 1973	
DA		"Knuckleballs," Scientific American, p. 22 (1987)	
DA		Lisoski graph, Fig. 7, Experimental Lift and Drag Histories for Bluff Plate, p. 95 (1993).	
DA		Mehta, R. D., "Aerodynamics of Sports Balls," Ann. Rev. Fluid Mech. 17:151-189 (1985).	
DA		Nebres, J. V., "Flow Around Yawed Stranded Cables," Master's Thesis, University of Notre Dame, Notre Dame, Indiana (1989).	

Examiner Signature	<i>Darren W. Ark</i>	Date Considered	9/4/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	March 16, 2004		
		First Named Inventor	SAFWAT, Sherif		
		Group Art Unit	3643		
		Examiner Name	Darren W. Ark		
Sheet	5	of	6	Attorney Docket Number	2195CON2

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
DA		Nebres, J. V., "Wake Similarity and Vortex Formation for Two-Dimensional Bluff Bodies," Doctoral Dissertation, University of Notre Dame, Notre Dame, Indiana (1992)	
DA		Oceanographic Ribbon Fairing Cable, The Rochester Corporation, Cat-82 (date unknown)	
DA		Roshko, A., "Perspectives on Bluff Body Aerodynamics," Second International Colloquium on Bluff Body Aerodynamics and Application, Melbourne, 7-10, pp. 81 (1992)	
DA		"On the Persistence of Transition in the Near-Wake," pp. 607 and 609. Problems of Hydrodynamics and Continuum Mechanics, Soc. Industrial and Appl. Math., Philadelphia (1969)	
DA		"Examples of Spectrum products, specific projects and end-users," Spectrum Ocean Systems Limited, Peterborough, Ontario (date unknown)	
DA		"Fairing and Anti-Stacking Ring Assemblies for Tow Cables," Spectrum Ocean Systems Limited, Peterborough, Ontario (date unknown)	
DA		Williamson, C. H. K., "Oblique and Parallel Modes of Vortex Shedding in the Wake of a Circular Cylinder at Low Reynolds Numbers," Journal of Fluid Mechanics 206:595 and 597, 1989	

Examiner Signature	Darren W. Ark	Date Considered	9/4/04
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				Group Art Unit	3643
				Examiner Name	Darren W. Ark
Sheet	6	of	6	Attorney Docket Number	2195CON2

[illegible]

Examiner Signature	<i>Lawrence W. Galt</i>	Date Considered	<i>9/4/04</i>
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